

Enhancing Biohazardous Waste Management @ MIT

To examine the policies, procedures, and behaviors that impact biohazardous waste disposal in research laboratories on MIT campus and identify best practices for laboratories to reduce their environmental footprint.

Problem

MIT campus disposes approximately 340 tons* of biohazardous waste every year, and efforts to decrease this amount are substantially challenging due to lack of metrics, data & accountability.

Current Biohazardous Waste Management Process on Campus



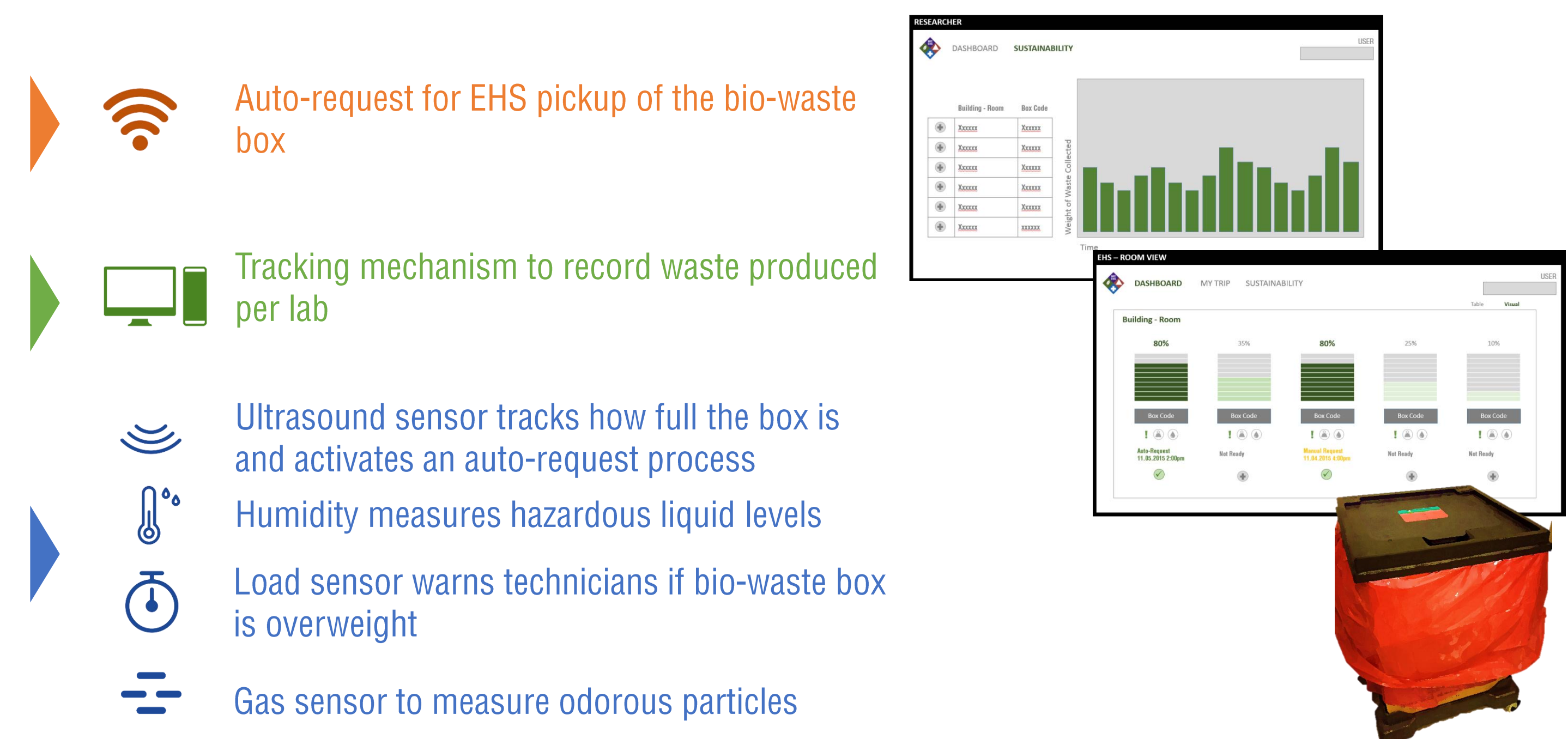
Research Findings & Value Analysis

20+ hours of interviews with stakeholders from EHS Biosafety, research labs and sustainability experts were conducted and a synthesis was performed on what each segment cares about most:



Recommendation: Multi-Sensory Bio-waste Box Prototype

The bio-waste box was modified with a multi-sensor platform that would feed data into an upgraded web platform for EHS. Key elements include:



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EC.716 / EC.786 D-Lab: Waste

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